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ABSTRACT OF THE DISCLOSURE

The present invention provides a method for creating a cryoarray of frozen tissue cores using a cryoarray system. Such system comprises a tissue mold, an embedding medium and a cryoarray device. The cryoarray device comprises a mold plate, an ejector plate, mold alignment pins, ejector pins, and cryoarray pins. Such method/system may be used for preparing frozen sections with multiple tissue specimens for assays such as *in-situ* hybridization and immunohistochemistry.